

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c) 1.97(c))

Free only
Docket No.
14998-235

In Re Application Of: Ryokichi, et. al.

Serial No.
09/638,162

Filing Date
August 14, 2000

Examiner
Rahll, Jerry T.

Group Art Unit
2874

Title: "POLARIZATION-MAINTENING OPTICAL FIBER AND POLARIZATION-MAINTAINING OPTICAL FIBER COMPONENTS"

Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

37 CFR 1.97(c)

- 09/13/2004 TLOWRENC 00000002 031240 09638162
01 FC:1806
2. ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application; or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
 2. a Notice of Allowance under 37 CFR 1.311,
- whichever occurs first.

Also submitted herewith is:

- ☐ a certification as specified in 37 CFR 1.97(e);

OR

- ☐ the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

Adjustment date: 12/07/2004 SDIRETA1
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01 FC:1806 180.00 CR

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

US Patent Appln. No. : 09/638,162, filed August 14, 2000
Title : "POLARIZATION-MAINTAINING OPTICAL FIBER
AND POLARIZATION-MAINTAINING OPTICAL
FIBER COMPONENTS"
Inventors : Matsumoto, et. al.
Examiner : Jerry T Rahll
Our Ref. : 14998-235

October 27, 2004

Assistant Commissioner for Patents & Trademarks
MAIL STOP: REFUND
P.O. Box 1450
Alexandria, VA 22313-1450


Sir:

On June 15, 2004 we filed a Supplemental IDS after payment of Issue Fee. This IDS was filed within the three month period of the Japanese issued office action on May 25, 2004 (attachment #1)

On our USPTO account, three charges of \$180.00 for fee code were noted on 9/13/2004, 9/28/2004 and 9/28/2004 for the above patent application (attachment #2) for the month of September 2004).

We respectfully request that this be reviewed and our account 03-1240 be credited in the sum of $\$180.00 \times 3 = \540.00

Dated October 27, 2004

By: 
Tammy Parabenchenko
Patents & Trademark Administrator
CHADBOURNE & PARKE
New York, York 10112
1-212-408-1053

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Attachment #1

TRANSMITTAL LETTER
(General - Patent Pending)Docket No.
14998-235

In Re Application Of: Matsumoto, et. al.

COPY

Serial No.
09/638,162Filing Date
August 14, 2000Examiner
Jerry T RahlGroup Art Unit
2874

Title: "POLARIZATION-MAINTAINING OPTICAL FIBER AND POLARIZATION-MAINTAINING OPTICAL FIBER COMPONENT"

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Transmitted herewith is:

SUBMISSION OF SUPPLEMENTAL IDS AFTER NOTICE OF ALLOWANCE HAS BEEN PAID
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JAPANESE REF. WITH TRANSLATION OF ABSTRACT FROM JAPANESE OFFICE ACTION
CERTIFICATE OF OF FIRST CLASS MAIL/CONFIRMATORY POSTCARD

in the above identified application.

- ☐ No additional fee is required.
- ☐ A check in the amount of _____ is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 03-1240 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.

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D. Basov

Signature

Dated: June 16, 2004

Daniel Basov, Reg. No. 42,303
CHADBOURNE & PARKE LLP
30 Rockefeller Plaza
New York, New York 100
1-212-408-5275

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20231.

D. Basov

Signature of Person Mailing Correspondence

Daniel Basov

Typed or Printed Name of Person Mailing Correspondence

cc:

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR ~~1.97(b) or 1.97(c)~~ 1.47(c))Docket No.
14998-235

In Re Application Of: Ryokichi, et. al.

Serial No.
09/638,162Filing Date
August 14, 2000Examiner
Rahll, Jerry T.Group Art Unit
2874Title: "POLARIZATION-MAINTENING OPTICAL FIBER AND POLARIZATION-MAINTAINING
OPTICAL FIBER COMPONENTS"Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231**37 CFR 1.97(b)**

1. ☐ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
2. a Notice of Allowance under 37 CFR 1.311,

whichever occurs first.

Also submitted herewith is:

- ☐ a certification as specified in 37 CFR 1.97(e);

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- ☐ the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

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| TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(e) 1.97(i)) | | | Docket No. 14998-235 |
| In Re Application Of: Ryokichi, et. al. | | | |
| Serial No. 09/638,162 | Filing Date August 14, 2000 | Examiner Rahll, Jerry T. | Group Art Unit 2874 |
| Title: "POLARIZATION-MAINTAINING OPTICAL FIBER AND POLARIZATION-MAINTAINING OPTICAL FIBER COMPONENT" | | | |
| Payment of Fee (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) | | | |
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| <input checked="" type="checkbox"/> The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 03-1240 as described below. A duplicate copy of this sheet is enclosed. | | | |
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| <div style="border: 1px solid black; padding: 5px;"><p>I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. _____) on _____ (Date)</p><p style="text-align: center;">_____ Signature</p><p style="text-align: center;">_____ Typed or Printed Name of Person Signing Certificate</p></div> | | <div style="border: 1px solid black; padding: 5px;"><p>I certify that this document and fee is being deposited June 16, 2004 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.</p><p style="text-align: center;">D. Basov</p><p style="text-align: center;">_____ Signature of Person Mailing Correspondence</p><p style="text-align: center;">Daniel Basov</p><p style="text-align: center;">_____ Typed or Printed Name of Person Mailing Correspondence</p></div> | |
| <p>*This certificate may only be used if paying by deposit account.</p> <p style="text-align: center;">D. Basov _____ Signature</p> <p style="text-align: right;">Dated: June 16, 2004</p> | | | |
| CC: | | | |

(THU) 10. 27' 44 10:39/ST. 10:37/NO. 4862440827 P 6

(Use several sheets if necessary)

14998-235

09/638.162

Applicant(s)

Ryokichi, et. al.

Filing Date

August 14, 2000

Group Art Unit

2874

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-107511

(43)Date of publication of application : 09.04.1992

(51)Int.Cl.

G02B 6/28

(21)Application number : 02-227710

(71)Applicant : SUMITOMO ELECTRIC IND LTD

(22)Date of filing : 28.08.1990

(72)Inventor : SASAOKA HIDEYORI

(54) PRODUCTION OF POLARIZATION MAINTAINING OPTICAL FIBER COUPLER

(57)Abstract:

PURPOSE: To easily obtain the coupler of a low excess loss with good reproducibility by using the polarization maintaining optical fibers which are specific in the distance from the center of a core up to the ends of stress imparting parts nearest the core as two pieces of the polarization maintaining optical fibers.

CONSTITUTION: The core 2 is formed of SiO₂ added with GeO₂, a clad 3 of SiO₂, the stress imparting part 4 of SiO₂ added with B₂O₃, and a coating 6 of a UV curing resin. The stress imparting parts 4 are provided by one piece each on the right and left of the core 2, have a circular section and form the polarization maintaining optical fiber of a so-called panda type. The spacing between the two stress imparting parts 4 is set at 30μm, larger than the spacing between the stress imparting parts of the ordinary polarization maintaining optical fiber. The diameter of the core is 9μm and the distance from the center of the core up to the ends of the stress imparting parts nearest the core is 15μm. The polarization maintaining optical fiber coupler having the low excess loss is produced with the good reproducibility in this way.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

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[Date of requesting appeal against examiner's

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⑤ 日本国特許庁 (J P)

⑩ 特許出願公開

④ 公開特許公報 (A) 平4-107511

⑥ Int. Cl. *

G 02 B 6/28

登録記号

B
W

庁内整理番号

7820-2K
7820-2K

④ 公開 平成4年(1992)4月9日

審査請求 未請求 請求項の数 2 (全4頁)

② 発明の名称 偏波保持光ファイバカブラの製造方法

③ 特 願 平2-227710

③ 出 願 平2(1990)8月28日

⑦ 発 明 者 笹 岡 英 資 神奈川県横浜市栄区田谷町1番地 住友電気工業株式会社
横浜製作所内

⑧ 出 願 人 住友電気工業株式会社 大阪府大阪市中央区北浜4丁目5番33号

⑨ 代 理 人 弁理士 石井 康夫

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明 細 書

1. 発明の名称

偏波保持光ファイバカブラの製造方法

2. 特許請求の範囲

(1) クラッド内にクラッド部材よりも熱膨張率の大きな応力付与部材を有する2本の偏波保持光ファイバを融着延伸して光ファイバカブラを製造する偏波保持光ファイバカブラの製造方法において、前記2本の偏波保持光ファイバとして、コア中心より応力付与部のコア最近端までの距離が15μm以上であるものを用いることを特徴とする偏波保持光ファイバカブラの製造方法。

(2) クラッド内にクラッド部材よりも熱膨張率の大きな応力付与部材を有する2本の偏波保持光ファイバを融着延伸して光ファイバカブラを製造する偏波保持光ファイバカブラの製造方法において、前記2本の偏波保持光ファイバとして、左右にコアを挟み込むように1個ずつの応力付与部を有し、該応力付与部の間隔が30μm以上であるものを用いることを特徴とする偏波保持光ファイ

バカブラの製造方法。

3. 発明の詳細な説明

(産業上の利用分野)

本発明は、光ファイバセンサ、コヒーレント光通信用部品などに用いられる偏波保持光ファイバカブラに関するものである。

(従来の技術)

従来、偏波保持光ファイバカブラを製造するには、2本の偏波保持光ファイバの被覆を除去した部分を平行に揃え、2本の偏波主軸方向を一致させた後、光ファイバを加熱して融着し、延伸を行って製造している。

第2図は、偏波保持光ファイバカブラの製造工程を説明するための概略図である。図中、1a、1bは偏波保持光ファイバのガラス部、2はコア、3はクラッド、4は応力付与部、5はバーナである。

先ず、2本の偏波保持光ファイバの中央部の被覆を除去し、露出した光ファイバのガラス部1a、1bを平行に並べる(第2図(A))。そして、



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Tammy Parubchenko, Esq.
Chadbourne & Parke LLP
30 Rockefeller Plaza
New York, NY 10112
U. S. A.

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June 8, 2004

SENT BY FACSIMILE

Re: IDS for U. S. Patent Application No. 09/638,162
"POLARIZATION-MAINTAINING OPTICAL FIBER AND
POLARIZATION-MAINTAINING OPTICAL FIBER
COMPONENT"
In the name of Fujikura, Ltd.
Your Ref: 14998-235
Our Ref: OSP-9156

Dear Ms. Parubchenko:

Thank you for your letter of June 4, 2004, informing us that an issue of the Letters Patent for the above-referenced application could not be confirmed.

We have recently received an Office Action issued on the Japanese patent application corresponding to the above-referenced application.

We enclose copies of the Japanese Office Action dated May 25, 2004, and a prior art document cited therein: Japanese Patent Application, First Publication, No. 04-107511 (and an English translation of the abstract thereof).

Please file these documents at the USPTO in compliance with the duty of disclosure prior to the issue of the Letters Patent for the above-referenced application. Meanwhile, seven other documents cited in the Office Action. Japanese Patent Application, First Publication, Nos. 63-208809, 60-242406, 62-222206, 08-313749, 01-287603, 08-043657, and



SHIGA INTERNATIONAL PATENT OFFICE

03-206405, need not be filed in the IDS because these documents have already been cited for the above-referenced application.

If you have any questions or comments, please do not hesitate to contact us.

Very truly yours,

T. Suzuki
(Mr.) Tatsuya Suzuki

Encls.: Copies of Japanese Office Action and a prior art document cited therein (9 pages)

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FROM CHADBOURNE & PARKE

(THU) 10. 27' 44 10:41/ST. 10:37/NO. 4862440827 P 11



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Attachment #2

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| Page | 1 |

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| 9 | 10 | 04 | 21 | 76301111 | | 6004 | 300.00 | 6182.00 |
| 9 | 10 | 04 | 46 | 09539218 | PMS-258 | 1801 | 770.00 | 5412.00 |
| 9 | 10 | 04 | 47 | 09539218 | PMS-258 | 1252 | 420.00 | 4992.00 |
| 9 | 13 | 04 | 18 | 09638162 | 14998.235 | 1806 | 180.00 | 4812.00 |
| 9 | 13 | 04 | 20 | 09843046 | 14998.270 | 1251 | 110.00 | 4702.00 |
| 9 | 13 | 04 | 21 | PAYMENT | | 9203 | -15000.00 | 19702.00 |
| 9 | 28 | 04 | 2 | 09638162 | 14998.235 | 1806 | 180.00 | 19522.00 |
| 9 | 28 | 04 | 3 | 09638162 | 14998.235 | 1806 | 180.00 | 19342.00 |
| 9 | 30 | 04 | 397 | 2192012 | 02325-620 (800) | 7205 | 100.00 | 19242.00 |
| 9 | 30 | 04 | 398 | 2192012 | 02325-620 (800) | 7208 | 200.00 | 19042.00 |
| 9 | 30 | 04 | 412 | 2195047 | 02325-620 (801) | 7205 | 100.00 | 18942.00 |
| 9 | 30 | 04 | 413 | 2195047 | 02325-620 (801) | 7208 | 200.00 | 18742.00 |

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1-703-305-4631

From: Tammy Parubchenko

Date: October 27, 2004

Phone: 1-212-408-1053

Room No.: 3505B

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Message:

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Tammy Parubchenko

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